

# **EXHIBIT P**

**Third Quarter 1997 Status Report  
Lawry's California Center  
570 West Avenue 26  
Los Angeles, California**

**October 27, 1997  
LARWQCB File Nos. 95-093 and 95-094  
3077.00/6257.00**



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Prepared for

California Regional Water Quality Control Board

Los Angeles Region

101 Centre Plaza Drive

Monterey Park, California 91754-2156



**Levine-Fricke-Recon**  
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

October 27, 1997

3077.00-40/6257.00-170

Ms. Ana Veloz  
California Regional Water Quality Control Board  
Los Angeles Region  
101 Centre Plaza Drive  
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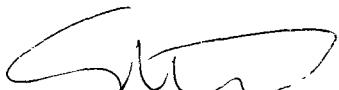
Subject: Third Quarter 1997 Status Report, Lawry's California Center,  
570 West Avenue 26, Los Angeles, California  
LARWQCB File Nos. 95-093 and 95-094

Dear Ms. Veloz:

Levine·Fricke·Recon Inc. has prepared the enclosed status report on behalf of the Lipton Company, dba Conopco, Inc. This report summarizes the status of ongoing investigative and remedial activities performed at the Lawry's California Center during the third quarter of 1997.

If you have any questions, please contact me at (714) 955-1390.

Sincerely,



Scott J. Ollivier, P.E.  
Senior Project Chemical Engineer

Attachments

cc: Don Smith, Esq., Unilever  
Mr. John Heil, Lawry's Foods, Inc.  
Bruce Smiley, Esq., Freeman, Freeman & Smiley  
Mr. Bruce H. Edelson, P.E.  
Mr. Paul Kuny, Caltrans

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## 1.0 INTRODUCTION

The Lawry's California Center consists of a 17-acre parcel of land located at 570 West Avenue 26, Los Angeles (Figures 1 and 2). Two primary areas of environmental concern have been identified at the Lawry's California Center: (1) the former Mathews Paint Company (Mathews) site and (2) the former Chromal Plating (Chromal) site. Ongoing remedial activities at the Lawry's California Center are focused on these two areas.

This quarterly status report provides an update of work performed at the Lawry's California Center in the third quarter of 1997.

## 2.0 SCOPE OF WORK

Work performed during the third quarter of 1997 consisted of the following:

### *Mathews Site*

- Continued operation of the vapor extraction system

### *Chromal Site*

- Measurement of water elevations in 12 monitoring wells located in the vicinity of the Chromal site
- Groundwater sampling of the 10 Chromal site monitoring wells
- Initiation of field and laboratory studies to evaluate potential remedial solutions for soil and groundwater at the site

## 3.0 MATHEWS SITE

### 3.1 Vapor Extraction System

Operation of the vapor extraction and hot air injection systems continued in the third quarter. Vapor extraction well volatile organic compound (VOC) concentrations have remained relatively steady during the quarter, with the exception of several wells that have shown decreasing concentrations.

### 3.2 Proposed Work

For the months of October and November, vapor extraction will continue to focus on the high VOC producing wells. Low VOC producing wells will be shut off and tested for a rebound in VOC concentrations after a period of inactivity.

At the end of November, after approximately seven months of operation, the vapor extraction equipment will be shut down. Rebound in soil-vapor VOC concentrations will be measured and verification soil samples may be collected to quantify post-remediation soil conditions. A recommendation for site closure will be made using the soil-vapor rebound and/or soil concentration results as well as risk-based considerations.

Groundwater monitoring is performed at the Mathews site on an annual basis, and the next sampling date is scheduled for June 1998.

## **4.0 CHROMAL SITE**

### **4.1 Groundwater Well Installation**

Two groundwater wells (LFCH-9 and nested well LFCH-10a,b,c) were installed on the Chromal site (Figure 3). Groundwater well LFCH-9 was installed near LFCH-1 for use in the aquifer testing described below. Nested wells LFCH-10a,b,c were installed to characterize the vertical distribution of chromium in groundwater beneath the site. Nested wells LFCH-10a,b,c were screened from 40 to 45 feet below ground surface (bgs), 55 to 60 feet bgs, and 75 to 80 feet bgs, respectively.

### **4.2 Groundwater Monitoring**

Groundwater monitoring activities were conducted on August 20 through 22, 1997. Depths to groundwater were measured in 12 Chromal site vicinity wells (LFCH-1 through LFCH-10, MSA-2 and MSA-3; Figure 3) prior to sample collection. Following depth-to-groundwater measurements, the monitoring wells were purged and then sampled. In addition, an equipment blank sample was collected for quality control purposes.

Groundwater samples were analyzed for total chromium, hexavalent chromium, and VOCs. All groundwater samples for total chromium and hexavalent chromium were filtered with a 0.45-micrometer membrane filter by the laboratory to evaluate dissolved concentrations of both total and hexavalent chromium.

#### **4.2.1 Groundwater Elevation and Flow Direction**

Current and historical groundwater elevations are presented in Table 1. Groundwater elevations were calculated using the depth-to-water measurements recorded for all eight Chromal monitoring wells. Groundwater elevations decreased by 0.16 to 1.17 foot compared to June 1997 measurements.

Well LFCH-7 was resurveyed to confirm or refute the anomalous groundwater elevation contours identified over past monitoring events. The new survey data

indicated that the previous top of casing elevation measurement for LFCH-7 was high by 1.06 feet.

Using the new survey data, groundwater elevations were plotted to determine the horizontal groundwater flow direction beneath the Chromal site. Groundwater elevation contours are shown in Figure 3. The horizontal groundwater flow direction beneath the Chromal site is generally to the south.

#### **4.2.2 Groundwater Analytical Results: Chromium**

Analytical results from current and previous monitoring activities are presented in Table 2. Hexavalent chromium concentrations decreased from 6.8 to 6.4 milligrams per liter (mg/l) in LFCH-1, increased from 0.3 to 0.46 mg/l in LFCH-3, and increased from <0.01 to 0.05 mg/l in LFCH-4. Neither total nor hexavalent chromium was detected at concentrations above the laboratory detection limits of 0.05 mg/l and 0.01 mg/l respectively, for samples collected from upgradient well LFCH-6, crossgradient well LFCH-2, or downgradient wells LFCH-5, LFCH-7, and LFCH-8.

The groundwater sample collected from newly installed well LFCH-9, located 20 feet to the east of LFCH-1, did not contain detectable levels of chromium. Analysis of groundwater samples collected from the newly installed nested wells LFCH-10a,b,c indicated that chromium is confined to the upper 15 feet of the aquifer (approximately 40 to 55 bgs) since samples collected from LFCH-10b and LFCH-10c (screened at intervals of 55 to 60 feet bgs and 75 to 80 feet bgs, respectively) did not contain detectable levels of chromium.

#### **4.2.3 Groundwater Analytical Results: Volatile Organic Compounds**

The groundwater analytical results for VOCs were consistent with previous monitoring results. Analytical results from current and previous monitoring activities are presented in Table 2. The concentrations of VOCs are relatively low and do not appear to be associated with the soil and groundwater conditions at the Chromal site since the halogenated VOCs tetrachloroethene and trichloroethene were historically present in the upgradient well, LFCH-6, and the aromatic hydrocarbons, such as benzene, toluene, ethylbenzene, and xylenes, are primarily associated with downgradient wells LFCH-3, LFCH-7, and LFCH-8.

### **4.3 Remedial Field and Laboratory Studies**

#### **4.3.1 Aquifer Pump Test**

An aquifer pump test was performed on August 28, 1997. The test consisted of pumping approximately 48 gallons per minute from well LFCH-1 for a period of 10 hours. The corresponding drawdown in wells LFCH-1, LFCH-9, and LFCH-10a was measured both during and after pumping. Groundwater samples were collected three

times during the test to evaluate groundwater chemical concentrations under pumping conditions.

The data collected from this test will be used to quantify aquifer characteristics. This information will be used to determine design parameters and estimate costs for pump-and-treat and iron wall-based remedial solutions. The results of this testing will be presented in a Remedial Action Plan for the Chromal site.

#### **4.3.2 Reactive Barrier and Soil Flushing Bench-Scale Studies**

Scheduling and subcontractor management services for bench-scale treatability studies were conducted during the third quarter of 1997. EnviroMetal Technologies, Inc., and the University of Waterloo, Ontario, will conduct a laboratory study of an iron-based reactive barrier to determine the effectiveness of an iron wall for treating hexavalent chromium and VOCs in the groundwater beneath the site. LFR's treatability laboratory in Emeryville, California, will perform bench-scale testing of in situ soil flushing to determine the effectiveness of flushing hexavalent chromium from soils at the site.

### **4.4 Proposed Work**

Field and laboratory testing of soil and groundwater remediation technologies will continue in the fourth quarter of 1997. The results of field and laboratory treatability studies will be used to prepare a conceptual design for the most effective remedial alternative for the Chromal site soil and groundwater. It is anticipated that these results will be presented to the Regional Water Quality Control Board for review by January 1998.

# **TABLES**

**Table 1:**  
**Groundwater Elevation Measurements**

Page 1 of 2

Chromal Plating Site Vicinity  
Lawry's California Center  
LFR 6257.00

Well Location ID	Date Measured	Top-of-Casing Elevation (feet MSL)	Depth to Groundwater (feet BTC)	Groundwater Elevation (feet MSL)	Relative Change in Groundwater Elevation (feet REL)
LFCH-1	06/02/93	334.23	39.44	294.79	-
	03/16/94		40.89	293.34	-1.45
	04/14/94		41.02	293.21	-0.13
	01/06/95		41.27	292.96	-0.25
	06/06/95		40.09	294.14	1.18
	12/28/95		40.78	293.45	-0.69
	04/11/96		40.80	293.43	-0.02
	05/20/96		40.67	293.56	0.13
	10/07/96		40.85	293.38	-0.18
	12/30/96		40.97	293.26	-0.12
	06/24/97		40.65	293.58	0.32
	08/20/97		40.84	293.39	-0.19
LFCH-2	03/16/94	334.33	41.17	293.16	-
	04/14/94		41.28	293.05	-0.11
	01/06/95		41.53	292.80	-0.25
	06/06/95		40.36	293.97	1.17
	12/28/95		41.04	293.29	-0.68
	04/11/96		41.05	293.28	-0.01
	05/20/96		40.93	293.40	0.12
	10/07/96		41.10	293.23	-0.17
	12/30/96		41.22	293.11	-0.12
	06/24/97		40.91	293.42	0.31
	08/20/97		41.10	293.23	-0.19
LFCH-3	03/16/94	334.73	41.86	292.87	-
	04/14/94		41.97	292.76	-0.11
	01/06/95		42.16	292.57	-0.19
	06/06/95		41.07	293.66	1.09
	12/28/95		41.73	293.00	-0.66
	04/11/96		41.75	292.98	-0.02
	05/20/96		41.61	293.12	0.14
	10/07/96		41.47	293.26	0.14
	12/30/96		41.88	292.85	-0.41
	06/24/97		41.58	293.15	0.30
	08/20/97		41.77	292.96	-0.19
LFCH-4	06/06/95	333.60	39.83	293.77	-
	12/28/95		40.47	293.13	-0.64
	04/11/96		40.51	293.09	-0.04
	05/20/96		40.37	293.23	0.14
	10/07/96		40.54	293.06	-0.17
	12/30/96		40.64	292.96	-0.10
	06/24/97		40.35	293.25	0.29
	08/20/97		40.53	293.07	-0.18

**Table 1:**  
**Groundwater Elevation Measurements**

Page 2 of 2

Chromal Plating Site Vicinity  
Lawry's California Center  
LFR 6257.00

Well Location ID	Date Measured	Top-of-Casing Elevation (feet MSL)	Depth to Groundwater (feet BTC)	Groundwater Elevation (feet MSL)	Relative Change in Groundwater Elevation (feet REL)
LFCH-5	06/06/95	331.22	37.31	293.91	-
	12/28/95		37.97	293.25	-0.66
	04/11/96		37.80	293.42	0.17
	05/20/96		37.84	293.38	-0.04
	10/07/96		38.02	293.20	-0.18
	12/30/96		38.12	293.10	-0.10
	06/24/97		37.84	293.38	0.28
	08/20/97		38.00	293.22	-0.16
LFCH-6	06/06/95	334.88	40.60	294.28	-
	12/28/95		40.43	294.45	0.17
	04/11/96		40.45	294.43	-0.02
	05/20/96		40.32	294.56	0.13
	10/07/96		40.52	294.36	-0.20
	12/30/96		40.64	294.24	-0.12
	06/24/97		40.32	294.56	0.32
	08/20/97		41.37	293.51	-1.05
LFCH-7	10/05/95	338.23	44.95	293.28	-
	12/28/95		45.38	292.85	-0.43
	04/11/96		45.40	292.83	-0.02
	05/20/96		45.25	292.98	0.15
	10/08/96		45.41	292.82	-0.16
	12/30/96		45.52	292.71	-0.11
	06/24/97		45.23	293.00	0.29
	08/20/97		45.41	292.82	-0.18
LFCH-8	10/05/95	329.74	36.55	293.19	-
	12/28/95		36.94	292.80	-0.39
	04/11/96		36.96	292.78	-0.02
	05/20/96		36.81	292.93	0.15
	10/07/96		36.90	292.84	-0.09
	12/30/96		37.02	292.72	-0.12
	06/24/97		36.73	293.01	0.29
	08/20/97		37.90	291.84	-1.17
LFCH-9	08/20/97	334.38	41.04	288.70	-
LFCH-10A	08/20/97	333.40	40.08	289.66	-

**NOTES:**

Survey of top-of-well casing elevations provided by Calvada Surveying,  
and performed by a California Licensed Land Surveyor.

REL - Relative Elevation

MSL - Mean Sea Level

BTC - Below Top of Casing

QA/QC: SJP

**Table 2:**  
**Summary of Groundwater Analytical Data**  
 Chromal Plating Site Vicinity  
 Lawry's California Center  
 LFR 6257 00

All values reported in milligrams per liter (mg/l)

Well Number	Relative Locations	Date Sampled	Chromium		Detected Volatile Organic Compounds by EPA Method 8240/8260											
			Total	Hexavalent	PCE	TCE	DCFM	Benzene	Toluene	Ethylbenzene	Total Xylenes	N	n-PB	IPB	1,2,4-TMB	1,3,5-TMB
LFCH-1	Chromal Site	06/02/93	11	12	0.033	0.0020	0.020	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
		03/16/94	35	34	0.023	0.0042	0.011	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
		06/06/95	25	27	0.013	0.0038	0.0024	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
		12/28/95	20	1.8*	0.019	<0.005	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA
		04/12/96	8.9	9.9	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	0.240	<0.025	<0.025	<0.025	<0.025
		04/12/96	9.8 (F)	8.5 (F)												
		04/12/96	8.4 (LF)	10.75 (LF)												
		04/12/96	8.9 (S)	12 (S)												
		04/12/96	10 (F) (S)	12 (F) (S)												
		05/21/96	11	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		05/21/96	10 (S)	16 (S)												
		10/08/96	7.1	7.1	0.014	0.003	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
		12/30/96	10	10	0.01	0.0036	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
		06/25/97	6.8	6.8	<0.001	0.0018	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
		08/20/97	6.6	6.4	0.0098	0.002	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
LFCH-2	Crossgradient	03/16/94	0.0096	<0.020	0.024	<0.0020		<0.0020	0.0045	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
		06/06/95	<0.010	<0.010	0.017	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
		12/28/95	0.02	<0.01	0.026	<0.005	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA
		04/11/96	<0.050	<0.01	0.038	0.002	<0.001	<0.001	0.009	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
		04/11/96	<0.050 (F)	<0.01 (F)												
		05/20/96	<0.050	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		10/08/96	<0.050	<0.01	0.023	0.003	<0.001	0.002	0.0024	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
		12/30/96	<0.050	<0.01	0.02	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
		06/24/97	<0.050	<0.01	0.005	0.0063	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
		08/20/97	<0.050	<0.01	0.018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
LFCH-3	Downgradient	03/16/94	1.3	1.4	0.029	<0.0020	0.013	0.0048	0.039	0.055	0.182	0.020	0.0066	0.0037	0.041	0.011
		06/06/95	0.76	0.82	0.017	0.0027	0.0081	0.0033	0.023	0.089	0.129	0.022	0.0081	0.0053	0.039	0.010
		12/28/95	1.4	0.02*	0.015	<0.005	NA	0.008	0.055	0.180	0.320	NA	NA	NA	NA	NA
		04/12/96	1.0	0.07*	0.018	<0.005	<0.005	0.006	0.096	0.1	0.235	0.038	0.010	<0.005	0.048	0.010
		04/12/96	1.0 (F)	0.06 (F)*												
		04/12/96	0.97 (LF)	0.88 (LF)												
		04/12/96	0.95 (S)	0.90 (S)												
		04/12/96	1.2 (F) (S)	0.96 (F) (S)												
		05/21/96	0.94	0.89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		05/21/96	0.77 (S)	0.94 (S)												
		10/07/96	0.94	0.89	0.014	<0.005	<0.005	<0.005	0.034	0.1	0.175	0.024	<0.005	<0.005	0.037	0.0084
		12/30/96	0.58	0.5	0.0074	<0.005	<0.005	<0.005	0.04	0.086	0.164	<0.005	0.0055	<0.005	0.044	0.0088
		06/25/97	0.45	0.3	<0.02	<0.02	<0.02	<0.02	0.071	0.21	0.34	0.13	0.029	<0.02	0.084	0.021
		08/22/97	0.5	0.46	0.011	<0.005	<0.005	<0.005	0.029	0.11	0.143	0.023	0.0094	<0.005	0.033	0.007

**Table 2:**  
**Summary of Groundwater Analytical Data**  
 Chromal Plating Site Vicinity  
 Lawry's California Center  
 LFR 6257 00

All values reported in milligrams per liter (mg/l)

Well Number	Relative Locations	Date Sampled	Chromium		Detected Volatile Organic Compounds by EPA Method 8240/8260											
			Total	Hexavalent	PCE	TCE	DCFM	Benzene	Toluene	Ethylbenzene	Total Xylenes	N	n-PB	IPB	1,2,4-TMB	1,3,5-TMB
LFCH-4	Downgradient	06/06/95	1.3	0.83	0.0052	0.0086	<0.0020	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
		12/28/95	0.56	<0.01*	0.006	0.007	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA
		04/11/96	0.37	0.35	0.008	0.010	<0.001	<0.001	0.017	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
		04/11/96	0.36(F)	0.3(F)												
		05/20/96	0.32	0.29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		05/20/96	0.29 (S)	0.33 (S)												
		10/07/96	0.22	<0.01*	0.0064	0.0088	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
		12/31/96	<0.050	<0.01	0.0037	0.0059	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
		06/25/97	<0.050	<0.01	0.0073	0.014	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
		08/22/97	0.14	0.05	0.004	0.0064	<0.001	<0.001	<0.001	<0.001	<0.003	0.0035	<0.001	<0.001	<0.001	<0.001
LFCH-5	Downgradient	06/06/95	<0.010	<0.010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
		12/28/95	0.055	<0.01*	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA
		04/11/96	<0.050	<0.01	<0.001	<0.001	<0.001	0.003	0.011	<0.001	<0.003	0.008	<0.001	<0.001	<0.001	<0.001
		04/11/96	<0.050 (F)	<0.01 (F)												
		05/20/96	<0.050	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		10/07/96	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
		12/31/96	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
		06/25/97	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
		08/22/97	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
		08/22/97	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
LFCH-6	Upgradient	06/06/95	<0.010	<0.010	0.0073	0.0038	<0.0020	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
		12/28/95	0.008	<0.01	0.007	<0.005	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	NA
		04/11/96	<0.050	<0.01	0.007	0.011	<0.001	<0.001	0.004	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
		04/11/96	<0.050 (F)	<0.01 (F)												
		05/20/96	<0.050	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		10/07/96	<0.05	<0.01	0.005	0.0071	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
		12/30/96	<0.05	<0.01	0.0042	0.006	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
		06/24/97	<0.05	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
		08/20/97	<0.05	<0.01	0.0084	0.0054	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001
LFCH-7	Downgradient	10/05/95	0.037	<0.010	<0.010	<0.010	<0.010	0.820	0.520	0.027	<0.030	0.490	0.210	0.080	<0.010	0.020
		12/29/95	<0.050	<0.01	<0.025	<0.025	NA	0.470	<0.025	<0.025	<0.025	NA	NA	NA	NA	NA
		04/11/96	<0.050	<0.01	<0.025	<0.025	<0.025	0.640	<0.025	0.025	<0.075	0.410	0.190	0.060	<0.025	<0.025
		04/11/96	<0.050 (F)	<0.01 (F)												
		05/20/96	<0.050	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		10/08/96	<0.05	<0.01	<0.05	<0.05	<0.05	0.39	<0.05	<0.05	<0.15	<0.05	0.19	0.054	<0.05	<0.05
		12/31/96	<0.05	<0.01	<0.025	<0.025	<0.025	0.48	<0.025	<0.025	<0.075	0.36	0.22	0.091	<0.025	<0.025
		06/25/97	<0.05	<0.01	<0.05	<0.05	<0.05	0.5	<0.05	<0.05	<0.15	0.35	0.27	0.092	<0.05	<0.05
		08/21/97	<0.05	<0.01	<0.025	<0.025	<0.025	0.28	<0.025	<0.025	<0.075	<0.025	0.14	0.034	<0.025	<0.025

**Table 2:**  
**Summary of Groundwater Analytical Data**  
**Chromal Plating Site Vicinity**  
**Lawry's California Center**  
**LFR 6257 00**

All values reported in milligrams per liter (mg/l)

Well Number	Relative Locations	Date Sampled	Chromium		Detected Volatile Organic Compounds by EPA Method 8240/8260											
			Total	Hexavalent	PCE	TCE	DCFM	Benzene	Toluene	Ethylbenzene	Total Xylenes	N	n-PB	IPB	1,2,4-TMB	1,3,5-TMB
LFCH-8	Downgradient	10/05/95	0.066	<0.010	<0 002	0.0020	<0 0020	<0.0020	0.0033	<0 0020	<0.0060	<0 0020	<0 0020	<0 0020	<0 0020	<0 0020
		12/29/95	<0.050	0.03	<0.005	<0 005	NA	<0.005	<0 005	<0 005	<0.005	NA	NA	NA	NA	NA
		04/11/96	<0.050	<0.01	<0.001	0 002	<0.001	<0 001	0.054	<0 001	<0.003	<0 001	<0 001	<0 001	<0 001	<0 001
		04/11/96	<0.050 (F)	<0.01 (F)												
		05/20/96	<0.050	<0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		10/07/96	<0.050	<0.01	<0.001	0.0018	<0 001	<0.001	<0.001	<0.001	<0 003	<0 001	<0 001	<0 001	<0 001	<0 001
		12/30/96	<0.050	<0.01	<0.001	<0 001	<0.001	0.0031	<0.001	0.0027	0.0066	<0.001	<0 001	<0 001	0.0064	0.0019
		06/25/97	<0.050	<0.01	0.0016	0.0016	<0.001	<0.001	<0.001	<0.001	<0.003	<0.001	<0 001	<0 001	<0 001	<0 001
		08/21/97	<0.050	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003	<0 001	<0 001	<0 001	<0 001	<0 001
LFCH-9	Chromal Site	08/20/97	<0.050	<0.01	0.0067	0.0017	<0.001	<0.001	<0.001	<0.001	<0 003	<0 001	<0 001	<0 001	<0 001	<0 001
LFCH-10A	Chromal Site	08/21/97	9.6	9.2	0.0068	0.0012	<0.001	<0.001	<0.001	<0.001	<0.003	<0 001	<0 001	<0 001	<0 001	<0 001
LFCH-10B	Chromal Site	08/21/97	<0.050	<0.01	0.0022	0.0013	<0.001	<0.001	<0.001	<0.001	<0 003	<0 001	<0 001	<0 001	<0 001	<0 001
LFCH-10C	Chromal Site	08/21/97	<0.050	<0.01	<0.001	<0 001	<0.001	<0.001	<0.001	<0.001	<0 003	<0 001	<0 001	<0 001	<0 001	<0 001
MCLs			0.05	NE	0.005	0.005	NE	0.001	0.15	0.7	1.75	NE	NE	NE	NE	NE

**Notes:**

**Chemical Abbreviations:**

NE = Not Established

NA = Not Analyzed

< = Designates less than the laboratory detection limit.

MCLs = Maximum Contaminant Level or Primary Drinking Water Standards for the State of California

(S) = Split sample analyzed by Thermo Analytical

(LF) = Filtered by the laboratory using a 0.45 micron membrane filter. All metals analysis samples after April, 1996 were filtered by the laboratory at the time of sample receipt using a 0.45 micron membrane filter.

(F) = Filtered at time of sample collection using a 0.45 micron membrane filter.

\* = Discrepancy in Total Chromium versus Hexavalent Chromium attributable to laboratory procedures.

PCE = Tetrachloroethene

1,2,4-TMB = 1,2,4-Trimethylbenzene

TCE = Trichloroethene

1,3,5-TMB = 1,3,5-Trimethylbenzene

DCFM = Dichlorodifluoromethane

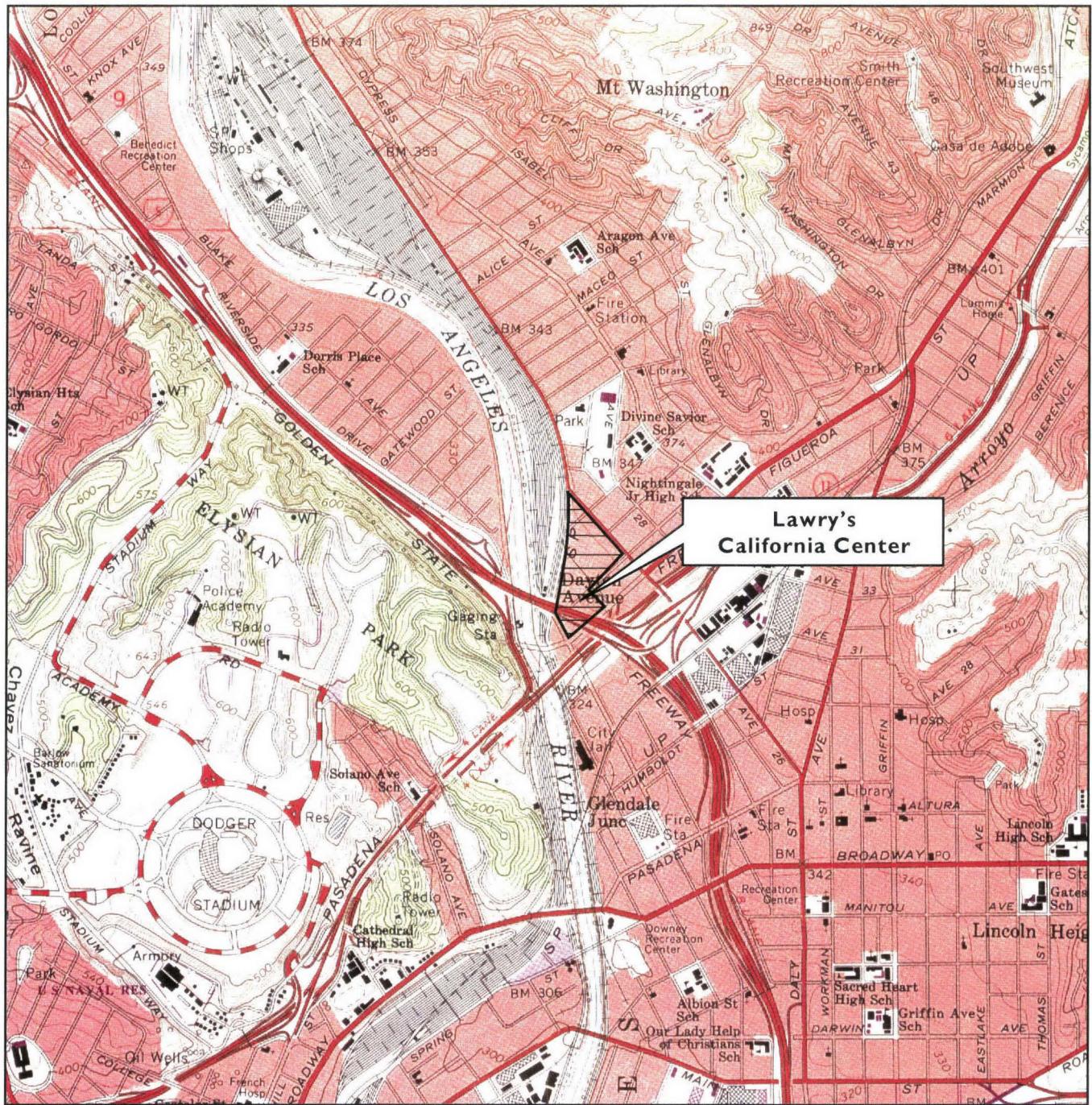
IPB = Isopropylbenzene

N = Naphthalene

n-PB = n-Propylbenzene

QA/QC SP

## **FIGURES**



MAP SOURCE: U.S.G.S Topographic Map, 7.5' Quadrangle, Los Angeles, California, 1981.

0 1,000 2,000 4,000 feet

#### Site Vicinity

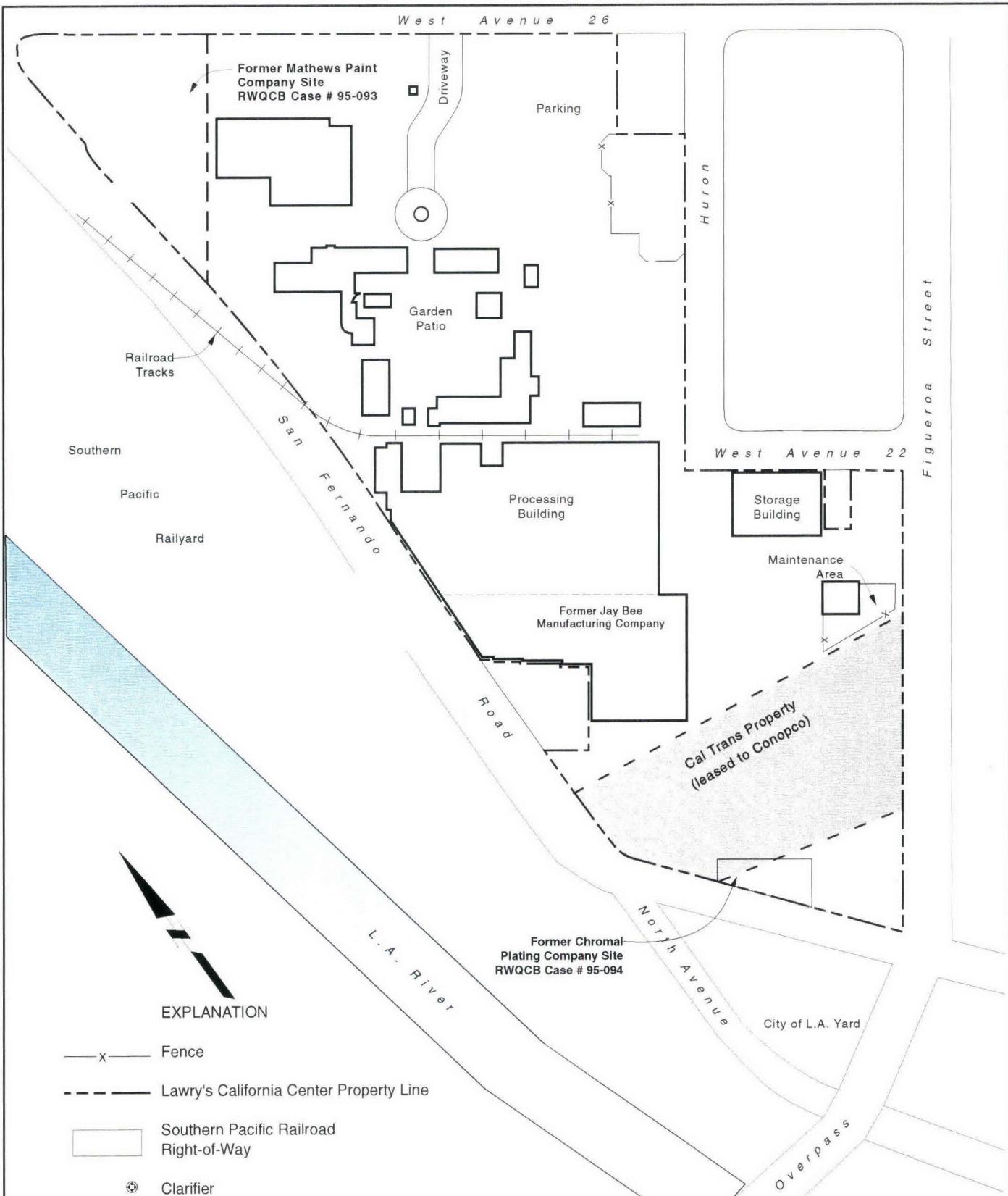
**Levine-Fricke-Recon**

Project No. 2377

Lawry's

**Figure 1**

2377-168\_111896SJO/sci



Lawry's California Center

### Site Plan

**Levine-Fricke-Recon**

Project No. 3077

**Figure 2**

